

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

Product name – Flute

MAPP – 08953

Use – Fungicide

Formulation type – Suspension concentrate (aqueous)

Supplier – Sipcam UK Limited, 3 The Barn, 27 Kneesworth Street, Royston, Herts SG8 5AB

Emergency phone no – Office 01763 212100

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition – Flute contains 720g/l Chlorothalonil (53.33% w/w).

Common name – Chlorothalonil

Common name – Propane 1,2 diol

CAS/EC no – 1897-45-6/217-588-1

CAS/EC no – 57-55-6/200-338-0

Hazard Symbol – Xn, N

Hazard Symbol –

R phrases – R40, R50/53

R phrases –

Conc<sup>c</sup> – 720g/l

Conc<sup>c</sup> – >100g/l

## 3. HAZARDS IDENTIFICATION

Irritating to eyes and skin.

May cause sensitisation by skin contact.

Limited evidence of a carcinogenic effect.

Very Toxic to aquatic environment may cause long term adverse effects in the aquatic environment.

Irritating to respiratory system.

Risk of serious damage to eyes.

## 4. FIRST AID MEASURES

General advice – Remove from source of exposure.

Remove all contaminated clothing and wash affected area.

Inhalation – Remove the individual from exposure to this product and keep well ventilated with fresh air. Keep at rest. If necessary and if breathing stops, give artificial respiration. Seek medical attention.

Skin contact – Remove contaminated clothing immediately.

Wash affected area thoroughly with soap and water.

Rinse with more water. Seek medical attention.

Eye contact – Rinse immediately with plenty of water for at least 15 minutes and then seek medical attention.

Ingestion – If swallowed, seek medical attention immediately and show label or safety data sheet.

Symptoms – Symptoms may not be apparent immediately but may occur after a few hours. Primary symptoms will be irritation of eyes, skin or respiratory tract mucosae. Possible corneal opacity. May cause renal damage and ataxia. Temporary sensitisation may also occur in certain individuals, characterised by eye redness, bronchial irritation and skin rash.

Treatment – Allergic reactions may be treated with antihistamines or steroids. No Specific antidote. Treat Symptomatically and Supportive.

Consult a Poisons Centre such as;

01711 635 9191 (National Poisons Information Service - London)  
(AUTHORISED MEDICAL PRACTITIONERS ONLY)

## 5. FIRE FIGHTING MEASURES

Suitable extinguishing media – Fight fire with CO<sub>2</sub>, dry chemical powder, foam or water spray (in preference to water jet).

Specific hazards – Combustion may generate toxic fumes containing HF, HC<sub>3</sub>,HCN and NO<sub>3</sub>.

Protective equipment – Wear self-contained breathing apparatus (SCBA).

Specific Methods – Cool containers with spray. Contain fire-fighting water, bunding if necessary with sand, earth, or other inert material.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment – Wear protective coveralls, neoprene gloves, rubber boots and faceshield or goggles, covering as much of the body as possible (see section 8).

Clean up Methods – Contain or absorb spillage with sand or earth Sweep up carefully and shovel sweepings into marked bags or drums. Dispose of through a reputable local waste disposal contractor.

## 7. HANDLING AND STORAGE

Handling – Use Personal Protective Clothing as specified in Section 8.

Avoid contact with skin and eyes. When using do not eat drink or smoke. Wash hands and face before eating, drinking or smoking.

Storage – KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place, out of reach of children and away from food, drink or animal feedingstuffs.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Standard (OES) – Hazardous ingredients

Propane 1,2 diol: LTEL, 8hr TWA Total: 150 ppm, 474 mg/m<sup>3</sup>.

No applicable standards for filled use.

Personal Protective Equipment

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES\* AND FACE PROTECTION (FACESHIELD) when handling the concentrate. (\*neoprene or nitrile at least 0.6mm thick).

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

Where PPE cannot be cleaned, dispose of as contaminated waste.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

State – Liquid

Density – 1.23 g/ml

Colour – Grey-white

Odour – Light, characteristic

pH (5% in water) – 9.1

Freezing point – -5°C

Explosive properties – Not explosive

Flammability – Non Flammable

Vapour pressure – (a) 1.3 Pa at 20°C

Melting point – 248-250°C

Solubility – Water 0.6 ppm Acetone 2% w/w

## 10. REACTIVITY AND STABILITY

Stability – Stable under normal ambient conditions. Non-flammable and non-corrosive.

Condition to avoid – High temperatures and direct sunlight.

## 11. TOXICOLOGICAL INFORMATION

Acute oral LD<sub>50</sub> (rat) – >4,000 mg/kg

Acute dermal LD<sub>50</sub> (rat) – >6,000 mg/kg

Acute inhalation LC<sub>50</sub> (4h, rat) – 0.217 mg/l (a)

Irritating to Skin & Eye

May cause sensitisation by skin contact.

Limited evidence of a carcinogenic effect. This is not considered to be a risk to man when handled and used as directed.

## 12. ECOLOGICAL INFORMATION

Mobility – (a) virtually immobile Koc 1600 - 14,000

Ecotoxicity

Chlorothalonil is very toxic to aquatic organisms.

(a) Rainbow Trout LC<sub>50</sub> 0.4 mg/l (96hr)

(a) Bees contact LD<sub>50</sub> >64 ug/bee

(a) Mallard duck LD<sub>50</sub> >4,000 mg/kg

## 13. DISPOSAL

Do not contaminate, ponds waters or ditches with chemical or used containers.

Contact Local Authority (Environmental Health Department) or a reputable waste disposal company for collection and disposal of unwanted product or containers.

For further guidance on the disposal of containers, surplus spray solution, tank washings and concentrate, refer to Part 5 (Disposal of Pesticide Waste) of the MAFF/HSE booklet "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

## 14. TRANSPORT

UN Number – 3082

Packaging Group – III

Marine Pollutant – Yes

ADR/RID Classification – 9, 11 °C

IMDG/IMO Classification – Not classified

Proper shipping name – ENVIRONMENTALLY HAZARDOUS SUBSTANCE. LIQUID N.O.S (contains chlorothalonil 50% w/w)

## 15. REGULATORY INFORMATION

Hazard Symbol – Xi Irritant

– N, Dangerous for the environment

Risk Phrases (R) – R36 Irritating to eyes.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R40 Limited evidence of carcinogenic effect.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50-53 Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

Safety Phrases (S) – S2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feedingstuffs.

S20/21 When using do not eat, drink or smoke.

S23 Do not breathe spray.

S24/S25 Avoid contact with skin and eyes.

S35 This material and its container should be disposed of in a safe way.

S36/37 Wear suitable protective clothing and gloves.

Other – To avoid risks to man and the environment comply with instructions for use. Contains chlorothalonil. May produce an allergic reaction.

## 16. OTHER INFORMATION

Packaging

Container – 3 Litre HDPE with 63mm neck

Outer – 4 x 3 Litre double-wall carton

Approval number – M 08953